

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2002223348  
PUBLICATION DATE : 09-08-02

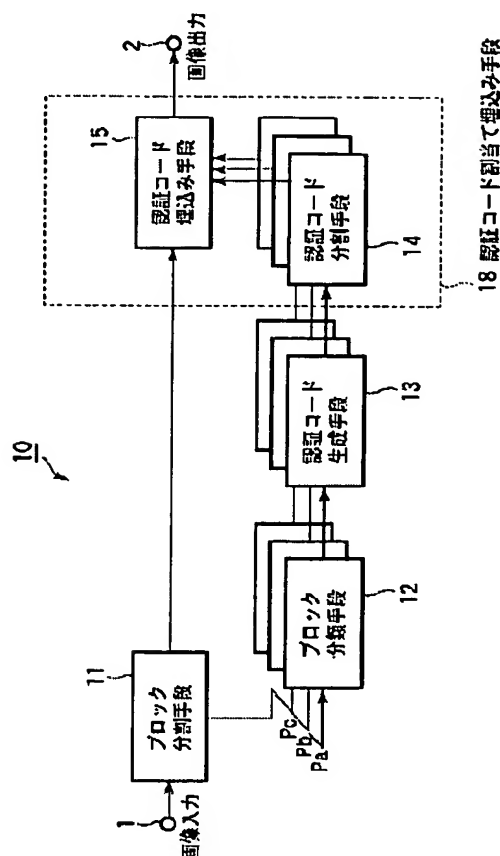
APPLICATION DATE : 25-01-01  
APPLICATION NUMBER : 2001017195

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INT.CL. : H04N 1/387 G06T 1/00 G09C 1/00  
G09C 5/00 H04N 7/08 H04N 7/081

TITLE : ELECTRONIC WATERMARK  
EMBEDDING DEVICE, FORGERY  
DETECTOR AND RECORDING  
MEDIUM



ABSTRACT : PROBLEM TO BE SOLVED: To make influence to image quality small and to simultaneously enhance fabrication detection accuracy in a system for embedding electronic watermark which divides an image into blocks and embeds an authentication code and for detecting forgery.

SOLUTION: In an embedding side (10), the blocks are classified into a plurality of sets by a plurality of respective classification patterns (12), an authentication code is generated for each of the sets formed by the respective classification patterns (13), and the authentication code is allocated to a block belonging to each set to be embedded (18). In a detecting side (20), the authentication code embedded in the block is extracted (24), the existence/absence of forgery within each set is discriminated by using the extracted authentication code (26), and forgery within each block is detected by combining the results (27).

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